

August 17, 2018

California State Lands Commission Mineral Resources Management Division 200 Oceangate, 12th Floor Long Beach, CA 90802

Attention: Mr. Richard Greenwood

Subject: Field and marine wildlife operations report for Sylmar Ground Return System Remotely Operated Vehicle survey

Reference: Geophysical Survey Permit PRC-9306

This Field and Marine Wildlife Operations Report is prepared in compliance with the requirements of Geophysical Survey Permit PRC-9306.

The remotely operated vehicle (ROV) survey was performed on July 19 and July 20, 2018. MBC. Weston Solutions, and Pro-ROV services, LLC conducted the ROV survey on the R/V Minotaur utilizing a tethered SeaBotix 300-6 ROV operated from the vessel's deck. The survey was conducted along the proposed cable route and electrode array area for the Los Angeles Department of Water and Power (LADWP) project to replace the existing Sylmar Ground Return System (SGRS) Marine Facility. The ROV survey was required to ensure the proposed cable route and electrode array will be located within soft bottom conditions and that Caulerpa taxifolia is not present in the area. The survey was conducted utilizing five surveillance track lines along the main proposed cable route, and 20 track lines through the proposed electrode array area. A figure representing the surveyed track lines along with the table containing; track location, track ID, starting and ending global positioning system (GPS) coordinates, area surveyed, and habitat description can be found in Attachment A. A trained marine wildlife observer (MWO) and a National Marine Fisheries-approved MWO were on board the R/V Minotaur during both days of vessel transportation and surveys.

MBC Senior Technician Jennifer Rankin, a National Marine Fisheries Service-approved MWO, along with trained MWO Dan McCov from Weston performed wildlife observations. The observers boarded the vessel in Marina Del Rey and provided shipboard observations throughout both days. Using pre-printed forms required by the marine wildlife contingency plan, the MWOs recorded observations of marine wildlife, including periodic entries if no marine mammals were observed.

When marine wildlife was observed, the MWO made the vessel captain and ROV operator aware of their presence and made recommendations for modifying survey activities to reduce potential disturbances or impacts to the marine wildlife. Marine wildlife observed in the project area were monitored for a period to confirm they appeared in good health, and to ensure the ROV's umbilical or the course of the survey vessel posed no threat to the wildlife's current course or behavior. During the surveys conducted on July 19th and July 20th, an estimated 115 common dolphins, 6 bottlenose dolphins, and 4 California sea lions were observed within the project area. No indications of disturbances, behavioral alterations, and no wildlife was observed on a course to intersect the survey vessel, therefore the survey vessel maintained its course. No disturbance was evident, and no wildlife was harmed during the entirety

of the survey. Copies of the completed marine mammal and wildlife observation and monitoring logs are provided in Attachment B.

Sincerely,

MBC Aquatic Sciences

James Nunez Project Manager

phone: 714-850-4830 ext. 227 E-mail: jnunez@mbcaquatic.com

Attachment A

ROV Surveyed Track Lines



ROV surveillance routes along the Main Cable Route and the Electrode Array and Anchorage Area

Track Location, Track ID, Starting and Ending Coordinates, Area Surveilled, and Habitat Description

	Track	Nort	th End	Sou	th End	Area	11.1% (5
Track Location	ID	Latitude	Longitude	Latitude	Longitude	Surveilled (m ²)	Habitat Description
	1	34.034603	-118.556307	34.013860	-118.569692	8,574.1	Soft Bottom Habitat
	2	34.034655	-118.556967	34.013757	-118.569999	8,378.1	Small patch of gorgonians located near north end of track for approximately 15 ft.
Main Cable Route	3	34.034588	-118.556531	34.013768	-118.569221	8,592.9	Soft Bottom Habitat
Walli Cable Roule	4	34.034753	-118.556854	34.013975	-118.570294	8,500.1	Soft Bottom Habitat
	5 34.034192 -118.557011 34.013673				-118.569052	7,937.5	Small patch of gorgonians located near north end of track for approximately 5 ft
			Main Cable Ro	oute Total		41,982.7	
Electrode Array and Anchorage	6	34.013701	34.013701 -118.569832		-118.575412	3530.3	Soft Bottom Habitat
Area	7	34.013595 -118.57042		34.006982	-118.567212	2607.1	Soft Bottom Habitat
Treely Location	Track	Wes	st End	Eas	st End	Area	Habitat Dagarintian
Track Location	ID	Latitude	Longitude	Latitude	Longitude	Surveilled (m ²)	Habitat Description
Track Education	8	34.013816	-118.574619	34.013873	-118.569787	1,365.0	Soft Bottom Habitat
	9	34.013360	-118.575982	34.013338	-118.568439	2,154.9	Soft Bottom Habitat
	10	34.012685	-118.576229	34.012792	-118.567696	2,417.5	Soft Bottom Habitat
	11	34.012165	-118.577102	34.012203	-118.567494	2,750.9	Soft Bottom Habitat
	12	34.011663	-118.577424	34.011858	-118.565037	3,711.3	Soft Bottom Habitat
Electrode Array	13	34.011368	-118.577482	34.011336	-118.566679	3,271.9	Soft Bottom Habitat
and Anchorage	14	34.011093	-118.575562	34.011135	-118.566802	2,483.1	Soft Bottom Habitat
Area	15	34.010806	-118.577741	34.010911	-118.566171	3,360.0	Soft Bottom Habitat
	16	34.010578	-118.570116	34.010607	-118.566252	1,095.1	Soft Bottom Habitat
	17	34.010246	-118.577972	34.010312	-118.566102	3,430.3	Soft Bottom Habitat
	18	34.009718	-118.578192	34.009780	-118.566434	3,381.1	Soft Bottom Habitat
	19	34.009060	-118.577891	34.009210	-118.566296	3289.4	Soft Bottom Habitat
	20	34.008601	-118.578036	34.008608	-118.566562	3323.8	Soft Bottom Habitat

Track Location, Track ID, Starting and Ending Coordinates, Area Surveilled, and Habitat Description (Cont.)

Tarak karadan	Track	Wes	st End	Eas	st End	Area	Hall'tet Baradatian
Track Location	ID	Latitude	Longitude	Latitude	Longitude	Surveilled (m²)	Habitat Description
	21	34.007980	-118.577616	34.008140	-118.566642	3110.4	Soft Bottom Habitat
	22	34.007535	-118.577712	34.007605	-118.566741	3,161.0	Soft Bottom Habitat
	23	34.006826	-118.577024	34.007040	-118.566904	2,871.3	Soft Bottom Habitat
Electrode Array	24	34.006392	-118.576779	34.006392	-118.567331	2,735.0	Soft Bottom Habitat
and Anchorage Area	25	34.005820	-118.575811	34.005897	-118.568217	2,143.4	Soft Bottom Habitat
	26	34.005660	-118.570987	34.005637	-118.568636	668.0	Soft Bottom Habitat
	27	34.005327	-118.575352	34.005296	-118.568966	1,822.0	Soft Bottom Habitat
		Electrod	de Array and And	chorage Area To	tal	58,682.9	

Attachment B

Marine Wildlife Observation Forms

Marine Mammal and Wildlife Observation and Monitoring Log

PROJECT - SYLMAR ROV SURVEY

AQUATIC SCIENCE

Vessel MINOTAUR Marine Mammal Observer(s): DAN MCGY, JEN RANKIN

Г		 	 										
		s	7-19-18	719-18	7-19-18	7-19-18	7-19-18	7-19-18	7-19-18 11:30	7-19-18 10:30	100	7-19-18 89:22	Date
			17.15	16:17	15:25	14:20	13:30	1230			1/	23:22	Time *
			118034.401	34°00.682	34°00.652	34°00, 368 118° 34.000	34°00.490 118°34.407	118° 34,061	34°02,064 118°33,458		@ ABEARING OF 188°	781.122	Vessel Position (Lat/Long) / Activity
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								6	Ü.	Sus		10	Mamr Est. # Indiv.
	,						C BUMRING = 1850	SOM OFF STARBOARD - KUNNED PARALEULTO BOAT. MOVED OFF AFTER 5 MINUTES			AFTER APPROX 5 MINUTES.	BEHAVIOR- CIRCUNG, BIRDS DIVING MOVED OFF	Mammals or Turtles Observed st. # Distance, Heading, Speed, & Activity of Wildlife & Behavior div. Changes (if any)
			0					COURSE				MAINTAIN	Recommended Action / Notification

^{*} Minimum observation record: once per hour. Note duration of presence of animals,

Page 2 of 2

Marine Wildlife Observations Form

Date: 19 Jul 18

Monitor: Dan McCay Jen Ranki,

Time: 0926	Latitude: 34° 01 122	Longitude: -118° 33, 985
Weather: Clear	Cloud Cover: Scattered	Glare: Mild
Visibility: 7 miles	Wind Speed: ム (Sea State: Calm
Swell Height:	Survey Vessel Activity: Rov	

Marine Wildlife Observations and Interactions:

O Common Dolphins 100 m offside. Exhibiting
Feeding Behavior-Circling, Biros Diving. Moved
OFF after approx 5 mins

Time: 12 20	Latitude: 34° 01.034	Longitude: 118° 34.061
Weather: Clear w/ little haze	Cloud Cover: Clear	Glare: Mild
Visibility: Z miles		Sea State: 3 on Beaufort Scale
Swell Height:	Survey Vessel Activity: Rov	Survey

Marine Wildlife Observations and Interactions:

6 Bottle nose Dolphin's 50m off Starboard Running Paralell to Boat. Moved off after 5 mins

Marine Environmental Variables

PROJECT - SYLMAR ROV SURVEY

Vessel

MINOTAUR

7-20-18

Marine Mammal Observer(s): DAN MCCoff

JEN RANKIN

aguatic science

							(1)						
										15.45	10:23	08:00	Time
									-	34,00.469	34°00.584	34°00.590	Latitude
							. 27		2	118034.018	118034,021	118°53.883	Longitude
								2	2	ROW	ROV SURVEY	ROV	Vessel Activity
										CLEAR	CLEAR	CLEAR	Weather
	×			10						Scrides MILD	CINALIVE	SCATTERED	Cloud Cover
										MILD	GNIW	MEDIUM OUT OF EAST	Glare
										3 MILES	3 mices	3 MILES	Visibility
		9	*5							11-16	7-10	12	Wind Speed
						-	_			SIMALL WAS	SAME CASS	CALM	Sea State
						4		ż		· W			Comments
\perp													

^{*} Minimum observation record: once per hour. Note duration of presence of animals,

Marine Mammal and Wildlife Observation and Monitoring Log

aquatic science

PROJECT - SYLMAR ROV SURVEY

Vessel MINOTAUR

Marine Mammal Observer(s): DAN MCloy, JEN RANKIN

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			15:21	4:4:2	12:47	11:59		11:40	11:30	10:50	09:20	15:30	08:00	Time *	
			34°01.107 118° 34.05%	34°01.692 118°33.705	34°00. 452 118° 34.271	24°00.517		34000.519	34000.518	34°00.580 118°54.592	34°00.765 118°34.296	34°00,729 118°34,290	34°00.606	Vessel Position (Lat/Long) / Activity	
2			TURTLES OBSERVED	NO MARINE PURMINALS OR	No WHEN OBSELVED	SEA LION		COMMON DOLPHIN	COMMON DOLPHIN	TURTIES OBSERVED	NO MARINE MAMMAS OR TURTLES OBSERVED	PARALLEL TO BOAT-BENKING 270°	TURTLES OSSERVED		
1 150					- 1	-		100	5			3		Est. #	Mam
						(C) ABENKING OF BOOK HEADING OUT TO SEA	DF:270°, DOLPHINS MOUNDED SIBENTS, DISAPPEARED AFTER 10 MINUTES,	CARLER FOD 200 M OFF STARBOARD STERN - SPLIT FISH WENT OUTS SEA @ A BCARING OF 130°, REMAINING FISH WENT BOLPHING SWAM PARALED TO BOAT A REARING	FEEDING REHAVIOR-CIRCING & DIVING			BEMPING 270°, O.TKNTS, SWIMMING & THEN DOVE & WANISHED - 100M OFF BET BOW		Distance, Heading, Speed, & Activity of Wildlife & Behavior Changes (if any)	Mammals or Turtles Observed
						MAINTAIN		MAINTAIN CEURSIT	MAINTAIN			MRINTAIN		Action / Notification	Recommended

* Minimum observation record: once per hour. Note duration of presence of animals,

Page __

100

Marine Wildlife Observations Form

Date: 2 20 Jul 18

Monitor: Dan McCoy, Jen Rankin

Time: 1140	Latitude: 34° 00.519	Longitude: 1/8° 34,306
Weather: Clear	Cloud Cover: Scattered	Glare: Mild
Visibility: 3 miles	Wind Speed: 7-10	Sea State: Scattered while ca
Swell Height:	Survey Vessel Activity: POV	Survey

Marine Wildlife Observations and Interactions:

100 Common Dolphins. Large POD 200 m OFF Starbard Stern- Split 50 went out to Sea, Remaining swan Parallel to Boat Dolphins moving @ 5-8 knts Disappeared after 10 mins

Time: 1159	Latitude: 34° 66,517	Longitude: 118° 34,609
Weather: Clear	Cloud Cover: Scattered	Glare: M.1d
Visibility: 3 m, Les	Wind Speed: 9-10	Sea State: Scattered white cay
Swell Height:	Survey Vessel Activity: Roy	Survey

Marine Wildlife Observations and Interactions:

I ca Sea Irn 150 m OFF Port Bow heading out to Sea

Marine Wildlife Observations Form

Date: 20 Jul 18

Monitor: Dan Mc Cay Jen Pankin

Time: 0851	Latitude: 34° 00.729	Longitude: - 1/8º 34,290
Weather: Clear	Cloud Cover: Scattered	Glare: Med
Visibility: 3 miles	Wind Speed: ム /	Sea State: Calm
Swell Height:	Survey Vessel Activity: Rov	

Marine Wildlife Observations and Interactions:

3 Ca Sea lions swimming parallel to Boat Dove & Vanished - 100m off Port Bow

Time: //30	Latitude: 34° 00.518	Longitude: -1/8 24.06 3
Weather: Clear	Cloud Cover: Scattered	Glare: Mile)
Visibility: 3 miles	Wind Speed: 7-10	Sea State: Scattered while caps
Swell Height:	Survey Vessel Activity:	

Marine Wildlife Observations and Interactions:

5 Common Dolphin. 200 m off Starboard Side, exhibiting Feeding Behavier-Circling & Diving

Marine Environmental Variables

PROJECT -Vessel MINOTAUR SYLMAR ROV SURVEY

Marine Mammal Observer(s):

7-19-18

* Minimum observa		-							,			14:20 34.00.	12:00 34001.	08:00 34°02.	Time Latitude	Vessel mu
Minimum observation record: once per hour. Note duration of presence of animals,			1					8				34°00.501 118° 33.883	34001. 252 118035,928	3462.046 118°33.231	ude Longitude	MINOTAUK
er hour. Note dura										5	5	SURVEY	ROV	ROV	Vessel Activity	
tion of presen											1.	SOME HAZE	A LITTLE HARE CLEAR	CLEAR	Weather	Marine
ice of animal			20									SCATTERE ()	E CLEAR	100	Cloud Cover	Marine Mammal Observer(s):
S						3.	-	6				MILD	MILD	MILD	Glare	bserver(s):
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		15			*					**************************************	ı	11-16	7-10	(7	Wind Speed	My Coy J
	¥	P P		-				×				8-EAUFORT	BEAUCORT	CAM	Sea State	JON KANKIN
				20									SCATTERED WHITE CAPS		Comments	KIN

EXHIBIT H

			75.	Mitiga	tion Monite	Mitigation Monitoring Program
Mitigation Measure (MM)	Location and Scope of Mitigation	Effectiveness Criteria	Monitoring or Reporting Action	Responsible Party	Timing	Implementation Date(s) and Initials
Air Quality and Gre	Air Quality and Greenhouse Gas (GHG) Emissions (MND Section 3.3.3)					
MM AIR-1 Engine	All Counties: Maintain all construction equipment in	Daily	Determine engine	OGPP permit	Prior to,	
Tuning, Engine	proper tune according to manufacturers' specifications;	emissions of	certification of vessel		during, and	
Certification, and	fuel all off-road and portable diesel-powered equipment	criteria	engines.		after	
Fuels. The	with California Air Resources Board (CARB)-certified	pollutants	-		survey	
tollowing measures	motor vehicle diesel fuel limiting sulfur content to 15 parts	during survey	Review engine	operator;	activities.	
will be required to	per million or less (CARB Diesel).	activities are	emissions data to			
be implemented by		minimized.	assess compliance,	State Lands	Submit	
all Permittees			determine if changes	_	Final	
under the Offshore			in tuning or fuel are		Monitoring	-
Drogge (OCDB)			required.	<u>></u>	Report	
as applicable	Los Angeles and Orange Counties: Use vessel engines		Verify that Tier 2 or		after	<u>-</u>
depending on the	meeting CARB's Her 2-certified engines or cleaner; the		cleaner engines are	ng	completion	344
county offshare	do not exceed 100 pounds based on engine certification		being used.	кероп.	of survey	ي څ
which a survey is	emission factors. This can be accomplished with Tier?		Calculate daily NO _x		dulylles.	
being conducted.	engines if daily fuel use is 585 gallons or less, and with		emissions to verify			
Pursuant to section	Tier 3 engines if daily fuel use is 935 gallons or less.		compliance with			-
Airborne Toxic	San Luis Obispo County: Use vessel engines meeting		Verify that Tier 2 or			
Control Measures,	CARB's Tier 2-certified engines or cleaner, accomplished	ı	cleaner engines are			
the Tier 2 engine	with Tier 2 engines if daily fuel use is 585 gallons or less;		being used.			
requirement	minutes: expine use peopled to maintain position in the		Inform vessel			
applies only to	water is not considered idling: discolliding within 200		operator(s) of idling	÷.		
viesels	meters (1,000 feet) of sensitive receptors is not permitted:		limitation.			
	use alternatively fueled construction equipment on site		Investigate			
	where feasible, such as compressed natural gas, liquefied		availability of			
	natural gas, propane or biodiesel.	•	alternative fuels.			
	Santa Barbara County: Use vessel engines meeting		Verify that Tier 2 or			
	CARB's Tier 2-certified engines or cleaner, accomplished with Tier 2 engines if daily fuel use is 790 gallons or less.		cleaner engines are being used.			
			Investigate	-		
			availability of alternative fuels.			
	Ventura County: Use alternatively fueled construction		Investigate		···	
	natural gas, liquefied natural gas, propane or biodiesel.		alternative fuels.			
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Mitigation Measure (MW)	Location and Scope of Mitigation	Effectiveness Criteria	Monitoring or Reporting Action	Responsible Party	Timing	Date(s) and initials
MM BIO-1: Marine Mammal and Sea Turtle Presence –	All State waters; prior to commencement of survey operations, the geophysical operator shall: (1) contact the National Oceanic and Atmospheric Administration Long Beach office staff and local whale-watching	No adverse effects to marine mammals or	Document contact with appropriate sources.	OGPP permit holder; Inquiry to NOAA and	Prior to survey.	Silk
Information.	ldlife sel rd re. This on the may be	<u></u>	Submit Final Monitoring Report after completion of survey activities.	local whale watching operators.		
MM BIO-2: Marine Wildlife Monitors	Except as provided in section 7(h) of the General Permit, a minimum of two (2) qualified MW/Ms who are	Competent	Document contact with and approval by	OGPP permit Prior to	Prior to	02)2 + b1/t
(MVMs).	all be nsit and	professional monitoring or marine				JAN
	observation, and data collection responsibilities shall be identified in the Marine Wildlife Contingency Plan required as part of all Offshore Geophysical Permit Program permits. Qualifications of proposed MVVMs shall be submitted to the National Oceanic and Atmospheric Administration (NOAA) and CSLC at least twenty-one (21) days in advance of the survey for their approval by the agencies. Survey operations shall not commence until the CSI Capproves the MVVMs	mammals and sea turtles; compliance with established monitoring policies.	Submit Final Monitoring Report after completion of survey activities.		-	
MM BIO-3: Safety Zone Monitoring.	Onboard Marine Wildlife Monitors (MWMs) responsible for observations during vessel transit shall be responsible for monitoring during the survey equipment operations. All visual monitoring shall occur from the highest practical		Compliance with permit requirements (observers); compliance with	OGPP permit Prior to holder.	Prior to survey.	1967 + 101/t
	at at		established safety zones. Submit Final Monitoring Report after completion of survey activities.			

For r the p durin prior Perm open	comi an ai moni equii away obse resta will n	the some to state to state of the some to state of the some during the some	If the abov geop		Measure (MM)
For nearshore survey operations utilizing vessels that lack the personnel capacity to hold two (2) MWMs aboard during survey operations, at least twenty-one (21) days prior to the commencement of survey activities, the Permittee may petition the CSLC to conduct survey operations with one (1) MWM aboard. The CSLC will consider such authorization on a case-by-case basis and	completed by the onboard MVVMs. During operations, if an animal's actions are observed to be irregular, the monitor shall have authority to recommend that equipment be shut down until the animal moves further away from the sound source. If irregular behavior is observed, the equipment shall be shut-off and will be restarted and ramped-up to full power, as applicable, or will not be started until the animal(s) is/are outside of the safety zone or have not been observed for 15 minutes.	the safety zone for the equipment less than 200 kHz must be monitored. The onboard MVVMs shall have authority to stop operations if a mammal or turtle is observed within the specified safety zone and may be negatively affected by survey activities. The MVVMs shall also have authority to recommend continuation (or cessation) of operations during periods of limited visibility (i.e., fog, rain) based on the observed abundance of marine wildlife. Periodic reevaluation of weather conditions and reassessment of the continuation/ressation recommendation shall be	Boomer System 100 If the geophysical survey equipment is operated at or above a frequency of 200 kilohertz (kHz), safety zone monitoring and enforcement is not required; however, if geophysical survey equipment operated at a frequency at or above 200 kHz is used simultaneously with	Equipment Type Single Beam Echosounder Multibeam Echosounder Side-Scan Sonar	Location and Scope of Mitigation
tilizing vessels that lack (2) MVMs aboard wenty-one (21) days wey activities, the o conduct survey ard. The CSLC will asse, by case has is and	During operations, if o be irregular, the ommend that animal moves further egular behavior is shut-off and will be wer, as applicable, or s) is/are outside of the irved for 15 minutes.	less than 200 kHz must s shall have authority turtle is observed within be negatively affected hall also have authority sation) of operations e., fog, rain) based on a wildlife. Periodic and reassessment of and reassessment of	100 100 100 100 100 11 is operated at or (kHz), safety zone required; however, if rated at a frequency at eously with	Safety Zone (radiue, m) 50 500 600	r Mitigation
					Criteria
					Reporting Action
					Party
					Timing
					Date(s) and Initials

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Mitigation Measure (MM)	Location and Scope of Mitigation	Effectiveness Criteria	Monitoring or Reporting Action	Responsible Party	Timing	Implementation Date(s) and Initials
	factors the CSLC will consider will include the timing, type, and location of the survey, the size of the vessel, and the availability of alternate vessels for conducting the proposed survey. CSLC authorizations under this subsection will be limited to individual surveys and under any such authorization; the Permittee shall update the MWCP to reflect how survey operations will occur under the authorization.				,	7
MM BIO-4: Limits	All State waters; nighttime survey operations are	No adverse	Presurvey request	permit	Approval	2
on Nighttime	prohibited under the OGPP, except as provided below.	effects to	for nighttime	holder.	required	#1
OGPP Surveys.	The CSLC will consider the use of single beam	marine	operations, including		before	Sharp
	case by case basis taking into consideration the	mammals or	equipment		survey is	1
	equipment specifications, location, timing, and duration of		proposed use			7
	survey activity.	activities are	schedule.		Monitoring	,
		observed.			Kepon	
			Document equipment		Tollowing	
			use.		tion of	
			Submit Final		survey.	
			Monitoring Report			
			survey activities.			
MM BIO-5: Soft	All State waters; the survey operator shall use a "soft	No adverse		permit	-emmi	4 11
Stalt.	start reciliique at the beginning of survey activities each	GIIGCIS IC	permit requirements	I CICIEI.	Ciallely	
	mammal that may be in the immediate area to leave	marine mammals or	(observers);		prior to	
	before the sound sources reach full energy. Surveys shall	sea turtles due	start procedures.			
	not commence at nighttime or when the safety zone	to survey	-			
	cannot be effectively monitored. Operators shall initiate	activities are	Submit Final			
	each piece of equipment at the lowest practical sound	observed.	Monitoring Report			
	level, increasing output in such a manner as to increase in		after completion of			
	steps not exceeding approximately 6 decibels (dB) per 5-		survey activities.			
	Monitors (MWMs) shall monitor the safety zone. If marine					
	mammals are sighted within or about to enter the safety					
	zone, a power-down or shut down shall be implemented					
	as though the equipment was operating at full power.					
	Initiation of ramp-up procedures from shut down requires that the MIMMs he able to visually observe the full safety.					

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·				•	(CDFW) with information regarding potential	
					CSLC and California Department of Fish and Wildlife	
					water). The purpose of such reporting is to provide	
					and reporting on the number of pinnipeds potentially disturbed (e.g., via head lifting, flushing into the	
			•		activity onshore as the vessel approaches, observing	
					Marine Wildlife Monitors shall monitor pinniped	
					potential for disturbance of pinnipeds on land: and	
-					Survey activity close to haul-out sites shall be	
			survey activities.		Fisheries Service (NMFS) guidelines;	
			after completion of		a haul-out site, consistent with National Marine	
	,		Monitoring Report		 The survey vessel shall not approach within 91 m of 	
	survey.		Submit Final		require that:	
9	tion of		equipment use.	observed.	300 meters (m) of a haul-out site, the MWCP shall further	Crock
	Bulkanin		presence and	ball person	adiagent to the proposed survey area. For surveys within	Sites
32/4/2/12	Report	nolder.	reactions to vessel	pinnineds at	identification of haul-out sites within or immediately	Pinniped Haul-Out
	Monitoring	OGPP permit Monitoring	Document pinniped		and implementable contingency Plan (MAYCP) developed	Alia DIC-7
		200	,		The Marine Mildlife Continues of the Mildlif	MM DIO 7
			-		and maintenance snall be provided in the required	
		-		-	the date and occurrence of such equipment inspection	
					manufacturer's equipment specifications. Ventication of	
					remains in proper working order and within	
					equipment used during permitted survey activities	
					equipment to ensure that low energy geophysical	
					inspection and maintenance of acoustic-generating	
					(e.g., boomer). Permit holders will conduct routine	
					applicability of these measures to other equipment types	
				•	Geophysical operators shall consider the potential	Schedule.
			,		as feasible.	Maintenance
			survey activities.	observed.	 Lowering the pulse rate (pings per second) as much 	Routine
			after completion of	activities are	 Using the shortest possible pulse length; and 	Manufacturer's
			Monitoring Report	to survey	subbottom profiler;	Equipment
	survey.	_	Submit Final	sea turtles due	 Using the highest frequency band possible for the 	and Adherence to
	and during		9	mammals or	scan sonar, including:	Equipment Use
7 CI & 41.52	prior to		equipment settings	marine	as they pertain to the use of subbottom profilers and side-	Limitations on
1 4 7 200	diately	holder.	during survey	effects to	maximum extent possible, the guidelines of Zykov (2013)	Practical
	mmo		Document initial and	No adverse	All State waters: peophysical operators shall follow to the	MM BIO-6
Date(s) and	Bulumi	Party	Reporting Action	Criteria	Location and Scope of Mingagon	Measure (MM)
Implementation		Responsible	Monitoring or	Effectiveness		Mitigation

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Mitigation Measure (MM)		Effectiveness Criteria	Monitoring or Reporting Action	Responsible Party OGPP permit	Timing Monitoring
MM BIO-8: Reporting Requirements Collision.	rs; if a collision with marine mammal or, the vessel operator shall document the der which the accident occurred, including scation (latitude, longitude) when the collision; time of collision; at the time of the vessel at the time of	No adverse effects to marine mammals or sea turtles due to survey activities are observed.	Submit Final Monitoring Report after completion of survey activities.	OGPP po holder	ermit
	neters, ion; ildlife				
	 at the time of collision; and, Name of vessel, vessel owner/operator, and captain officer in charge of the vessel at time of collision. After a collision, the vessel shall stop, if safe to do so; 				
	proceed after confirming that it will not further damage the animal by doing so. The vessel will then immediately communicate by radio or telephone all details to the				
	vessel's base of operations, and shall immediately report the incident. Consistent with Marine Mammal Protection				
	Act requirements, the vessel's base of operations or, if an onboard telephone is available, the vessel captain him/herself, will then immediately call the National				
·	Oceanic and Atmospheric Administration (NOAA) Stranding Coordinator to report the collision and follow any subsequent instructions. From the report, the				
	Stranding Coordinator will coordinate subsequent action, including enlisting the aid of marine mammal rescue				
	operations, a telephone call will be placed to the Stranding Coordinator NOAA National Marine Fisheries				
	Service (NMFS). Southwest Region, Long Beach, to				
	obtain instructions. Although NOAA has primary responsibility for marine mammals in both State and				
	Federal waters, the California Department of Fish and Wildlife (CDFW) will also be advised that an incident has				
,	occurred in State waters affecting a protected species				

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All MPAs; prior to commencing survey activities, geophysical operators shall coordinate with the CLSC, California Department of Fish and Wildlife (CDPW), and any other appropriate partment of Fish and Wildlife (CDPW), and yother appropriate partment priors of Fish and Wildlife (CDPW), and yother appropriate partment holder, and the applicability of the survey to the allowable MPA activities shall be defined by the permit holder, and the applicability of the survey to the allowable MPA activities shall be defined by the permit holder, and the applicability of the survey to the allowable MPA activities shall be defined by the permit holder, and the applicability of the survey to the allowable MPA activities shall be defined by the permit holder, and the applicability of the survey to the allowable MPA activities shall be defined by the permit holder, and the applicability of the survey broposed within a MPA, and shall provide a copy of such authorization to the CSLC aspart of the required presurvey notification to CSLC. C. C	Mitigation Measure (MM)	Location and Scope of Mitigation	Effectiveness Criteria	Monitoring or Reporting Action	Responsible Party		Implementation Date(s) and
ations California Department Strall coordinate with the CLSC. California Department of Fish and Wildlife (CDFW), and in any other appropriate permitting agency regarding proposed operations within MPAs. The scope and purpose of each survey proposed within a MPA shall be defined by the permit holder. If deemed necessary by CDFW. geonlysical operators will pursue a scendific collecting permit, or other appropriate authorization, to secure approved to work within a MPA, and shall provide a copy of such authorization to the CSLC as part of the required presurvey notification to CSLC. CDFW, and/or other permitting agencies may impose further restrictions on survey activities as conditions of approval. Plan releases of petroleum and/or non-petroleum products during survey operations. Permittees CSCPs shall include the following information for each vessel or cach vessel or cach very. Specific steps to be taken in the event of a spill. Include the following information for each vessel or petroleum and/or non-petroleum products and (2) wildlife rescuerresponse organizations (e.g., Description, quantities, and location of spill response equipment onboard the vessel. Onboard spill response equipment and supplies shall be spill of petroleum products as outlined in the OSCP. The sponse in spill of petroleum products as outlined in the OSCP. The sponse in spill of petroleum products as outlined in the OSCP. The sponse in spill of petroleum products as outlined in the OSCP. The sponse in spill of petroleum products as outlined in the OSCP. The sponse in spill of petroleum products as outlined in the OSCP. The sponse in spill of petroleum products as outlined in the OSCP. The sponse in spill of petroleum products as outlined in the OSCP. The sponse in spill of petroleum products as outlined in the OSCP. The sponse in spill of petroleum products as outlined in the OSCP. The sponse in spill of petroleum products as outlined in the OSCP. The sponse in spill of petroleum products as outlined in the OSCP. The spill	WM BIO-9:	All MPAs; prior to commencing survey activities,		Monitor reactions of	OGPP permit	Prior to	
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racility. No cross vessel rueling shall be allowed. If or an accidental spill. Onboard spill response equipment and supplies shall be spill of petroleum products as outlined in the OSCP the event of a spill. In the potential spill accivities. Vessel spill. Spill of petroleum products as outlined in the OSCP the event of a spill response in response equipment/supplies spill. In the potential tueling activities. Vessel spill. Spill of petroleum products as outlined in the OSCP the event of a spill response in response equipment/supplies inventory, verify	IM HAZ-2:	Vessel fueling shall only occur at an approved docking	Reduction in	Documentation of	Contract	Following	71 1712
Onboard spill response equipment and supplies shall be spill. Onboard spill response equipment and supplies shall be spill vessel spill of petroleum products as outlined in the OSCP. The event of a spill of petroleum products as outlined in the OSCP. The event of a spill operator. Spill of petroleum products as outlined in the OSCP. The event of a spill operator. Spill of petroleum products as outlined in the OSCP. The event of a spill operator.	essel rueling	facility. No cross vessel fueling shall be allowed.	the potential	fueling activities.	vessel	survey.	4194 416
Onboard spill response equipment and supplies shall be Proper and Sufficient to contain and recover the worst-case scenario spill of petroleum products as outlined in the OSCP the event of a spill of petroleum products as outlined in the OSCP spill.	Suicuons.		tor an accidental		operator.		JAN
spill of petroleum products as outlined in the OSCP. the event of a equipment/supplies spill.	IM HAZ-3:	Onboard spill response equipment and supplies shall be	Proper and	Notification to CSLC	Contract	Prior to	6/22 3,20
went of a	ınd supplies.	spill of petroleum products as outlined in the OSCP.	response in	response	operator.	ourcy.	2/212/to
			spill.	inventory, verify			لعمن

EXHIBIT H

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Mitigation Measure (MM)	Location and Scope of Mitigation	Effectiveness Criteria	Monitoring or Reporting Action	Responsible Party	Timing	Date(s) and initials
			ability to respond to worst-case spill.			
MM HAZ-1:	Outlined under Hazards and Hazardous Materials (above)					6/22
Oil Spill						
Contingency Plan						7
(OSCP) Required					-	
Information.						
MM HAZ-2:	Outlined under Hazards and Hazardous Materials (above)					6122
Vessel fueling						
restrictions.						
MM HAZ-3:	Outlined under Hazards and Hazardous Materials (above)			•		6/02
OSCP equipment						200
and supplies.						7
MM BIO-9:	Outlined under Biological Resources (above)					1-7
Limitations on						0/2
Survey Operations in Select MPAs.						م محمد
MM REC-1: U.S.	All California waters where recreational diving may occur;	No adverse	Notify the USCG.	OGPP permit Prior to	Prior to	.
Coast Guard		effects to	local harbormasters,	holder.	survey.	6/22
(USCG),	Permittees to provide the USCG with survey details,	recreational	and local dive shops			- 1
Harbormaster, and	ns,	divers from	of planned survey	-		JEE
Dive Shop	٠,	survey	activity.	,		
Operator		operations.				
Notification.	include the information in the Local Notice to Mariners,		Submit Final			
	areas. Furthermore, at least twenty-one (21) days in		after completion of			
	advance of in-water activities, Permittees shall: (1) post		survey activities			
-	such notices in the harbormasters' offices of regional		•	. •		
	harbors; and (2) notify operators of dive shops in coastal					
	locations adjacent to the proposed offshore survey					
	O DO SOLICIO DO					

Mitigation Monitoring Program

				9		initials
MM FISH-1: U.S. /	All California waters; as a survey permit condition, the	No adverse	Notify the USCG and	OGPP permit Prior to		
Coast Guard (CSLC shall require Permittees to provide the USCG with	effects to	local harbormasters	holder.		220
(USCG) and	survey details, including information on vessel types,	commercial	of planned survey			<u>-</u>
Harbormaster s	survey locations, times, contact information, and other	fishing gear in	activity.			25
Notification. c	details of activities that may pose a hazard to mariners	place.	,			
65	and fishers so that USCG can include the information in		Submit Final			
	the Local Notice to Mariners, advising vessels to avoid		Monitoring Report			
	potential hazards near survey areas. Furthermore, at		after completion of			
	least twenty-one (21) days in advance of in-water		survey activities.			
6.	activities, Permittees shall post such notices in the		i			
-	harbormasters' offices of regional harbors.					
MM FISH-2:	To minimize interaction with fishing gear that may be	No adverse	Visually observe the	OGPP permit Imme-		
Minimize	present within a survey area: (1) the geophysical vessel	effects to	survey area for	holder.		021++21/2
5	(or designated vessel) shall traverse the proposed survey	commercial	commercial fishing		prior to	, ,,,
Fishing Gear.	corridor prior to commencing survey operations to note	fishing gear in	gear. Notify the gear		survey	C 200
n	and record the presence, type, and location of deployed	place.	owner and request		(prior to	
	fishing gear (i.e., buoys); (2) no survey lines within 30 m		relocation of gear	-	each	
	(100 feet) of observed fishing gear shall be conducted.		outside survey area.		survey	
	The survey crew shall not remove or relocate any fishing				day).	
	gear, removal or relocation shall only be accomplished by		Submit Final		:	
	the owner of the gear upon notification by the survey		Monitoring Report			
	operator of the potential conflict		after completion of			
			survey activities.			
MM FISH-1:	Outlined under Commercial and Recreational Fisheries	,				-
USCG and ((above)	·				0122
Harbormaster						Z.
Notification.						

Acronyms/Abbreviations: CARB = California Air Resources Board; CDFW = California Department of Fish and Wildlife; CSLC = California State Lands Commission; dB = decibels; kHz = kilohertz; MPA = Marine Protected Area; MWCP = Marine Wildlife Contingency Plan; MWM = Marine Wildlife Monitor; m= meter(s); NOAA = National Oceanic and Atmospheric Administration; NO_x = Nitrogen Oxide; OGPP = Offshore Geophysical Permit Program; OSCP = Oil Spill Contingency Plan; USCG = U.S. Coast Guard

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